The Knowledge Bank at The Ohio State University

Ohio State Engineer

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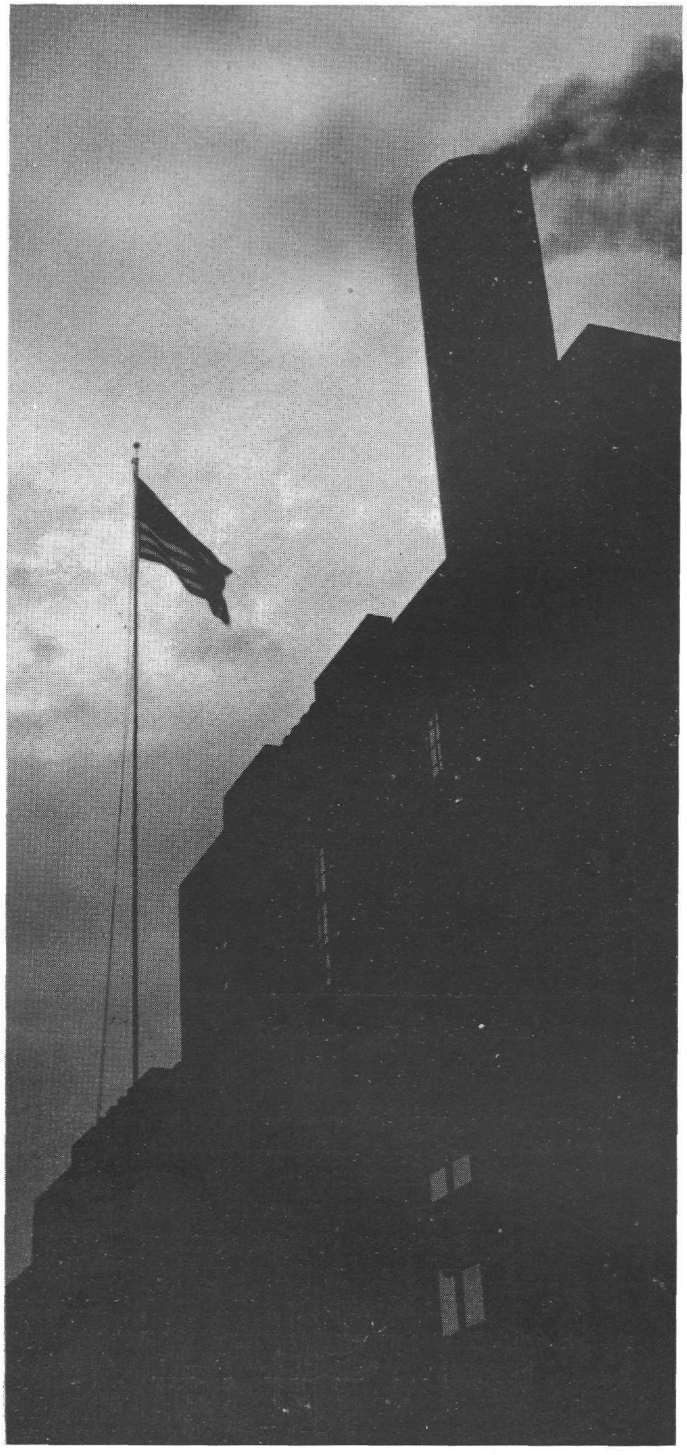
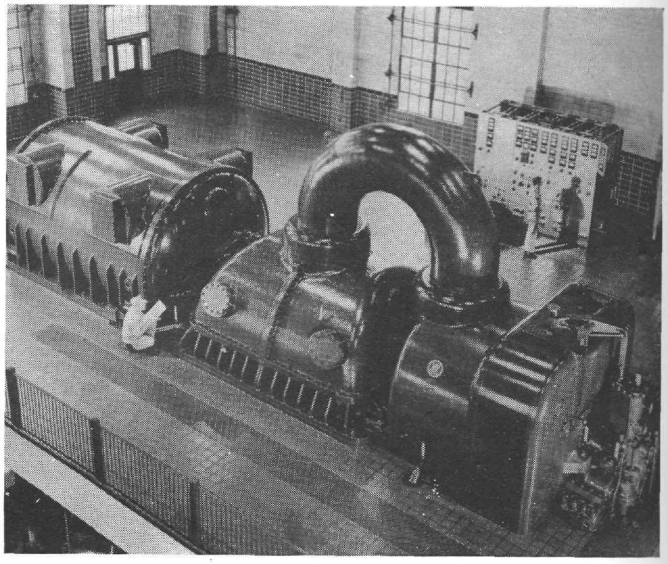
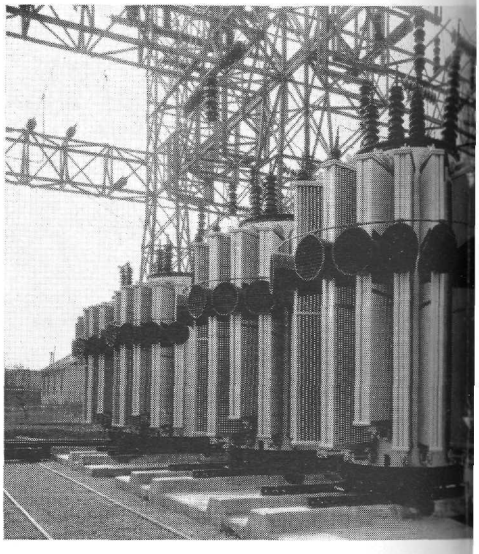


• The beginning of the journey of the power, the powerhouse.



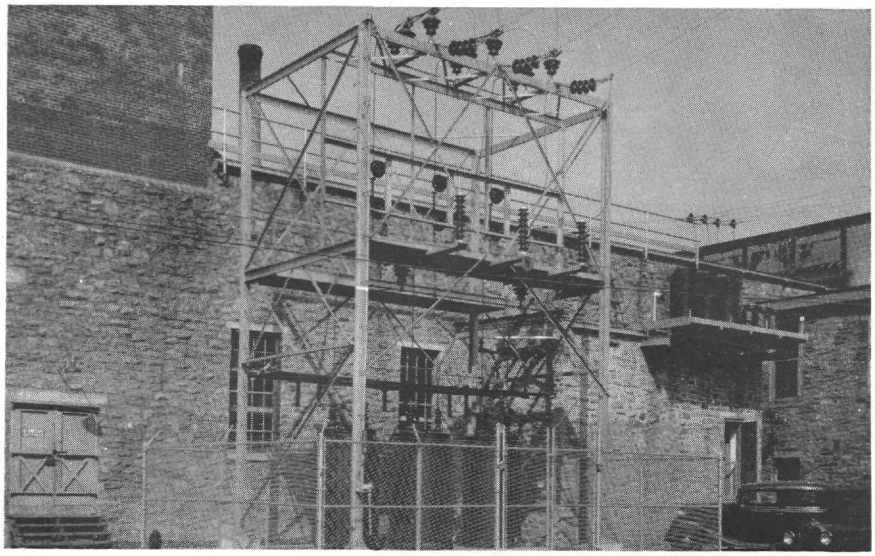
• The prime mover, the steam turbine, on the right; on the left, the generator.



• Oil-filled transformers to change the voltage, 13,000 volts, to a higher voltage mission. Note radiators and cooling fa

POWER

Courtesy Westinghouse



• Distribution point—This substation reduces the potential to 2,300 volts before it enters the factory.

This layout is designed to represent pictorially the flow of power from the prime mover to the final uses.

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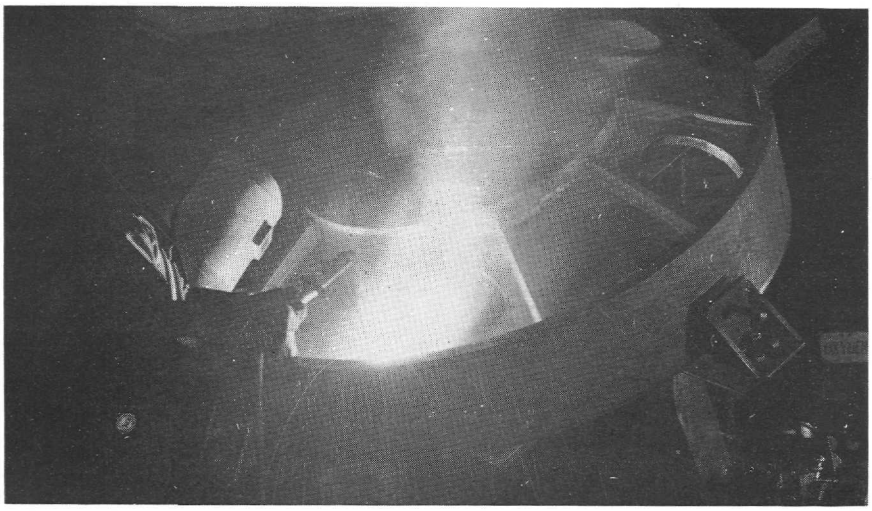
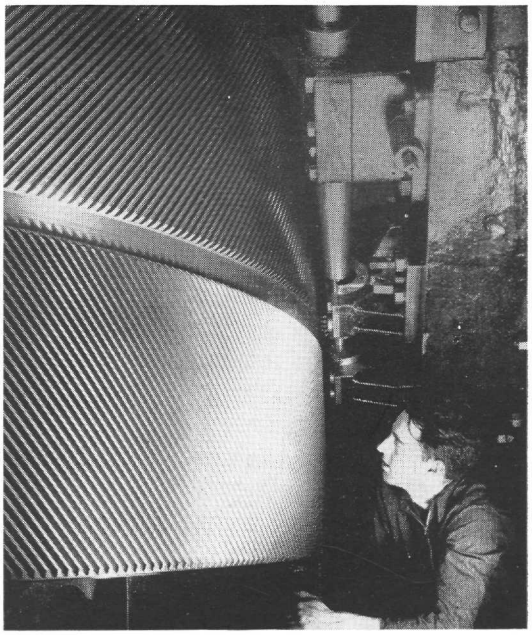


• Power in the plant being used to lay fillet welds on a marine electric coupling.

• The transmission lines with copper coated steel lines at high potential, 66,000 to 132,000 volts.



• Hobbing a marine bull gear.